Ninebot Gokart Series Maintenance Guidance

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1. Purpose of This Guidance:

This guidance is prepared to guide the maintenance work of Ninebot products. Enable the service center technicians authorized by our company to timely and accurately do the troubleshooting and repair according to the error codes and failure phenomenon. To ensure the normal operation of the product, this maintenance guidance is hereby written, hope maintenance personnel can read it carefully and abide by the operating requirements and specifications in this manual.

2. Scope of Application:

This manual is mainly for the Gokart series and introduces the troubleshooting methods of common problems. This manual is only for service providers authorized by Segway-Ninebot and internal use, and shall not be disseminated in any form or means.

3. Version Records:

No.	Last Version	Revision	Revise Contents	Revision Date	Revised by
1	-	23V1	New	20230218	Di Renjie
2	23V1	23V2	New	20231002	Wu Xiaolei
3	23V2	23V3	New	20231026	Wu Xiaolei

4. Work Preparation:

4.1. Maintenance Requirements

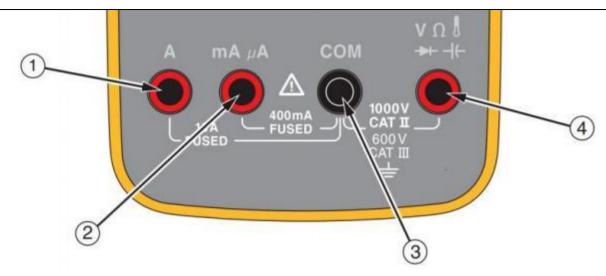
4.1.1 Maintenance personnel must be trained and obtain the training certificate before they maintain the product.

4.2 Environmental Requirements

The indoor work area must be equipped with electrostatic protection devices to facilitate the replacement and maintenance of antistatic components. The main functions are electrostatic leakage, dissipation, neutralization, reinforcement, shielding, and grounding.

4.3 Instruction of Professional Tools

4.3.1 Instruction of Using Multimeter:



No.	Description
1	For AC and DC current measurement (up to 10 A)
2	Microampere (μA) and Milliampere (mA) measurements for AC and DC (up to 400mA)
3	Common terminal (return) for all measurements.
4	Input terminals for voltage, resistance, continuity, diode, and capacitance measurements.

4.3.2 Basic Operation of Multimeter

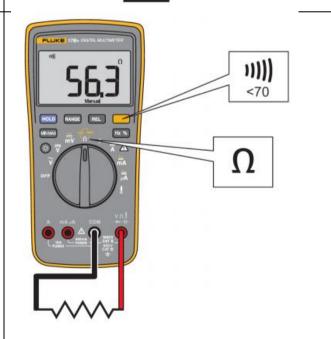
Voltage Measurement: 1. Rotate the switch to select DC. 2. Plug the red test cable into the common the black test cable into the correct test point on the circuit to measure the voltage, as shown on the right. 4. Read the measured voltage on the display.

Resistance Measurement:

- 1. Rotate the switch to Ω . Make sure that power of the test circuit is already turned off before measurement.
- 2. Plug the red test cable into the vnl terminal and the black test cable into the **COM** terminal.
- 3. Use the probe to touch the correct test point on the circuit to measure the resistance.
- 4. Read the measured resistance on the display.

Continuity Measurement:

- 1. Select the resistance mode, and press the yellow button once to activate the continuity beeper.
- 2. When the resistance is lower than 70 Ω , the buzzer will sound continuous, indicating the short circuit



4.3.3 Tools to remove the steering bar bracket

Operations	Picture
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Tools to remove the steering bar bracket:

1. **PN:** AB.50.0002.39

2. **Function:** Used to remove steering bar of Ninebot Mini or steering shaft of Mini Pro



4.4 Common Error Codes and Solutions

How to identify the error code after the product fails: The alarm code can be judged by the length of the alarm sound, the long drop represents ten, the short drop represents one, or by viewing the APP, the corresponding maintenance method of the alarm code is as follows:

4.4.1 Error code 1 - Dry Cells Power too Low

Error Code	Troubleshooting	Result	Solution
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1 (Yellow	1. The Gokart front cabin yellow light flashes	1.Dry Cells Power too Low	1.Replace six dry batteries. (This phenomenon
light flashing	and rings at intervals;		may occur with 1.2V rechargeable batteries, it is
in the front			not recommended to use 1.2V batteries), the
in the none			replacement is ineffective, you need to replace
cabin			the front cabin housing
,			

4.4.2 Error code 55 - Serial Port Communication Interrupted

Error Code	Troubleshooting	Result	Solution
	After the trouble-free balancing vehicle is	2.The serial	2.Check whether the connection between the
	installed, the Gokart reports an error of 55;	communication between	balance vehicle and the Gokart is good, you can try
55			to remove the extension cord, directly connect the
		the balance car and the	balance vehicle with the Gokart line is it also alarm,
		kart is abnormal	if it is still alarm, replace the Gokart spring wire or
			controller or balance vehicle battery

4.4.3 Error code 56 - Bluetooth Communication Error

Error Code	Troubleshooting	Result	Solution
56	1.After the trouble-free balancing car is	1. The Bluetooth signal	1. Turn off the Bluetooth of nearby mobile phones to
	installed on the kart, the kart reports 56 errors;	of balancing vehicle is	ensure that the Bluetooth of balancing vehicle is not
		occupied by other	occupied by other devices, and then restart
		devices, causing the	
		Bluetooth communication	balancing vehicle and Gokart;
		between Gokart and	2. If the balancing vehicle is not connected to
		balancing vehicle to fail;	Gokart, power it on separately, open the APP and
		2. The Bluetooth	cokart, power it orr separately, open the Arri and
		communication between	search the vehicle again to see if it can be searched
		Gokart and balancing	and connected to the balancing vehicle. If not, the
		vehicle is interrupted	middle cabin of the balancing vehicle is damaged; if
			yes, the Gokart controller is damaged;

4.4.4 Error code 57- Serial Port & Bluetooth Communication Error

57	1.balancing vehicle 单独连接 APP,APP 提示	1. 可能不是最新固件;	1.升级到最新固件之后切换Gokart模式,与Gokart
	有最新	2.延长线接触不良	适配连接使用
	固件升级提示	3.弹簧线接触不良	2.更换延长线
	2.去掉延长线,车辆故障解决	4.前舱控制器异常	3.更换弹簧线
	3.外接一根弹簧线(拔掉原有的弹簧线,外		4.更换前舱控制器
	接一根新线测试),车辆故障消失		
	4.更换Gokart前舱控制器,车辆故障消失		

4.4.5 Error code 58 - Throttle Signal Abnormal

Error Code	Troubleshooting	Result	Solution
58	1.检查油门是否回弹到位,油门未正常回弹	1.油门组件异常	1.更换油门刹车组件
	2.查看油门磁铁位置,发现磁铁脱落或者移	2.油门组件异常	2.更换油门刹车组件
	位	3.TVS 管烧	3.同时更滑油门刹车组件与前舱控制器
	3.前舱指示灯闪烁 58 号报警,但没有实际		
	报警声		

4.4.6 Error code 59 - Brake Signal Abnormal

Error Code	Troubleshooting	Result	Solution
59	1.检查刹车是否回弹到位,油门未正常回弹	1.油门组件异常	1.更换油门刹车组件
	2.查看刹车磁铁位置,发现磁铁脱落或者移	2.油门组件异常	2.更换油门刹车组件
	位	3.TVS 管烧	3.同时更滑油门刹车组件与前舱控制器
	3.前舱指示灯闪烁 59 号报警,但没有实际		
	报警声		

4.4.7 Error code 61 - Balancing vehicle does not adapt

Error Code	Troubleshooting	Result	Solution
61	1.Gokart PRO 只能适配balancing vehicle	1.车辆型号用错	1.使用正确车型适配Gokart
	MAX 与平衡 车 MAX 运动版,如果搭配		
	mini/minipro/燃动	2.物料用错或序列号修改	2.更换正确型号物料或重新修改 SN 号
	版就会报错 61 号报警		
		错误	
	2.balancing vehicle MAX 在维修更换中舱控制		
	器之后		
	搭配出现 61 号报警		

4.4.8 Error code 62 -Balancing vehicle firmware too low

Error Code	Troubleshooting	Result	Solution
62	Gokart改装套件2和GokartPro2分别搭配适配的	检查balancing vehicle 版本	用APP连接Gokart直接升级balancing vehicle 固件
	balancing vehicle 时,如果balancing vehicle	是否低于以下版本:	即可
		balancing vehicle MAX:	
	固件版本过低,Gokart会报错62号报警	2.6.8	
		balancing vehicle 运动版:	
		3.1.6	
		mini和minipro:1.9.4	
		minipro2: 1.9.2	

4.5. Troubleshooting Methods and Solutions of Common Faults:

4.5.1 Unable to Power On

segway ninebot



segway ninebot

	is in poor	
	contact	
	3.4.	
	Balance car	
	battery	
	charging	

3. Balancing	
vehicle starts	3.1. Replace the dry battery
normally in the kart,	
Bluetooth blinks,	3.2. Replace the extension cable
and the indicator	3.3. Poplace the enring cable
light of the front	3.3. Replace the spring cable
cabin housing of	3.4. Replace the battery of the balancing vehicle
the kart is off:	
3.1. Replace 6 dry	3.5. Replace the front cabin controller
batteries and turn	3.6. Replace the Y-shaped cable
on Gokart normally	
3.2. After removing	
the extension cord,	
the spring cord is	
directly connected	
with balancing	
vehicle. The kart	
can be started	
normally	
3.3. Connect a	
spring wire	
(remove the	
original spring wire,	
connect a new wire	
to test), and Gokart	
starts up normally	
3.4. Replace the	
battery of balancing	
vehicle. Gokart	
starts up normally	
3.5. Replace the	
front cabin	
controller, Gokart	
starts up normally	
3.6. Replace the Y-	
cable and Gokart	
starts up normally	



Error Code	Troubleshooting	Result	Solution
Steering	1. The whole body can swing up and down	1. The frame is not fixed;	1. Use the 5MM hex wrench provided with the car to tighten
wheel wobble	2. The front compartment can swing from side	2. The quick removal under	the frame;
		the front cabin is not	Quickly disassemble and reinstall, pay attention to tighten
	to side	locked;	2. Quickly disassemble and remstall, pay attention to tighten
	3. Steering wheel is loose	3. Steering wheel screws	the nut before pressing the wrench;
		loose;	3. Remove the cover plate or code table on the steering
			wheel and tighten the screws on the steering wheel using a
			4mm hex wrench;

4.5.3 Unable to connect to Bluetooth

Error Code	Troubleshooting	Result	Solution
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The	1. Authorization related to the mobile phone is	1. Enable mobile phone	Check whether the Bluetooth and positioning functions of
phone	not enabled or the operation is incorrect;	authorization; 2.Gokart	the mobile phone are turned on, and whether the relevant
cannot		Bluetooth has been	permissions of the No. 9 travel APP are turned on and not
connect	2.Gokart Bluetooth is occupied by other	connected to other	prohibited by the mobile phone system; Point re-search
to Gokart	devices;	devices;	vehicle re-add attempt;
Bluetooth	3. The vehicle can be searched, but the pairing	3. Pairing fails;	2.Gokart blue light flashing indicates that the Bluetooth is not
	cannot be completed;	4. The Gokart controller is	connected, blue light steady on indicates that the Bluetooth
		faulty.	is connected, connected state, can not connect with other
	4. Gokart cannot be found.		mobile phones;
			3. Check whether the mobile phone network is normal. When
			the APP prompts you to step on the brake to complete the
			pairing, you need to step on the brake for a long time to
			complete the pairing. Pay attention to stepping on the brake
			to the end to eliminate the situation that the main brake of
			the foreign body card cannot be stepped on to the end;
			4. Replace the Gokart controller.

4.5.4 Powering on automatically forward or backward

Error Code	Troubleshooting	Result	Solution
Gokart	1. Check whether belonging vehicle is	1. Check whether	Connect the balancing vehicle with the kart after
turns on	Check whether balancing vehicle is	1. Check whether	upgrading to the latest firmware and switching to Gokart
automatic	upgraded to the latest firmware and switched to	balancing vehicle is	
ally to go	the Gokart mode.	upgraded to the latest	mode;
forward or			2. Ensure that the accelerator brake pedal bounces back in
backward	Check whether the accelerator and brake	firmware and switched to	place If it fails to rehaved in place replace it with a pow
	2. Shook whether the accolerator and brake	the Gokart mode.	place. If it fails to rebound in place, replace it with a new
	pedal bounce back in place;		accelerator brake pedal assembly;
		2. Check whether the	
		accelerator and brake	
		pedal bounce back in	
		place;	

4.5.5 Unable to reach maximum speed

Error Code Troubleshooting	Result	Solution
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Gokart's	3、1. The maximum speed of white Gokart with	4.01 1.11 11	1. Observe whether the maxim	num speed matches the
maximum	Xiaomi balancing vehicle is 24Km/h, and the	Check whether the	vehicle type;	
speed	maximum speed of MiniPro balancing vehicle is	balancing vehicle model is	2. Check whether Gokart is ac	tivated. Whether the driving
doesn't	27Km/h. The maximum speed of balancing	different from the user's	mode is track mode (white Gol	kart+mini is sport mode);
live up to	vehicle MAX is 37Km/h;	understanding.	balancing vehicle power (more	than 80%) is sufficient;
its	4、2.Gokart Pro and Gokart Lamborghini. The	2. The maximum speed	Whether the temperature of ba	alancing vehicle is within the
advertised	Gokart Bumblebee. Gokart Optimus Prime can	condition is not met;	range of 0~40°C; Whether the	balancing vehicle or Gokart
speed	only be adapted to balancing vehicle MAX, the		has an alarm;	
	maximum speed can not reach 40Km/h;		3. In the manual shift mode, w	hether the gear is switched to
	5、3, Gokart modification kit 2 generation with		the 3rd gear;	
	millet balancing vehicle, maximum speed			
	24Km/h, with minipro/minipro2 maximum speed			
	27Km/h, with MAXbalancing vehicle maximum			
	speed 37Km/h; Gokartpro2 with balancing			
	vehicle MAX maximum speed 37Km/h, with			
	balancing vehicle MAX (second generation)			
	maximum speed 43Km/h;			
		l.		

4.5.6 balancing vehicle prompts error code when installed to Gokart

Error Code	Troubleshooting	Result	Solution
Balancing	1.balancing vehicle under the Gokart, when the	1. There is electric leakage	1.Balancing vehicle failure, check the place where leakage
vehicle	steering shaft of balancing vehicle is in contact	inside balancing vehicle,	is easy to occur: inside the motor, you can determine
prompts	with the static plate of the card car, the vehicle		whether there is resistance between the motor wire and the
eror code	will appear 57 alarm or not start; But the	which interferes with	metal outside the motor by measuring with a multimeter;
when	balancing vehicle won't call the police unless it	communication	The middle compartment hit the line when it was loaded
installed	makes contact with Gokart		onto the body;
to Gokart			

4.5.7 Gokart Kit 2, Gokart pro2 throttle has no reaction when powering on

Error Code	Troubleshooting	Result	Solution
Gokart	Confirm whether the Gokart is turned on	1.Gokari starts normally	If the Gokart front cabin is not on or the red light is
	normally. The blue light of the front cabin light is blinking or steady on		blinking, refer to other troubleshooting methods;
doesn't		2. The Gokart mode is	
walk away	2. Check the Gokart game suite screen to see if	incorrect	SPORT RACE X B
	Gokart is in P-stop mode. Or "GAME" mode	3.Gokart is in the wrong gear	GEAR mph kph M2
	Check the Gokart game Kit screen to see if		



Gokart is in "0 gear" in "M" manual shift mode	2. Press the red power button in the middle of the game kit
(only Gokartpro2 supports this mode)	to switch modes such as "ECO.SPORT.RACE" or "M
	manual";
	3. Press the right shift key and switch 1/2/3 in increments;

4.5.8 Gokart got stuck during riding

Error Code	Troubleshooting	Result	Solution
Gokart got	1. After the Gokart is turned on normally,	1. The spring cable is in	1. Replace the spring cable
stuck	unplug the spring cable, and the connection	poor contact	2. Replace the accelerator and brake components
during the		, pos. 00.1.00	3. Replace the front cabin controller
ride	between the Gokart and balancing vehicle will	2. The accelerator pedal is	
	be automatically switched to Bluetooth	abnormal	
	communication, and the vehicle will return to	3. The controller is	
	normal		
	2. Replace the throttle pedal and the vehicle is	abnormal	
	back to normal		
	3. Replace the front cabin controller and the		
	vehicle is back to normal		

4.5.9 Gokart keeps beeping during riding

Error Code	Troubleshooting	Result	Solution
The Gokart	1. Check the device Settings in the APP, and the	1. Normal phenomena	Can be adjusted according to user requirements
drips and	driving tone is turned on	2. The vehicle is in reverse	2. Step on the brake twice to switch gears
drips as it	2. Press the brake twice in a row, and there will	gear	Handle according to the alarm code processing method,
unves	be no dripping sound	3. The vehicle is abnormal	see 4.4 series
	3. The front cabin starts flashing yellow or red		

4.5.10 Cannot adapt Ninebor engine speaker

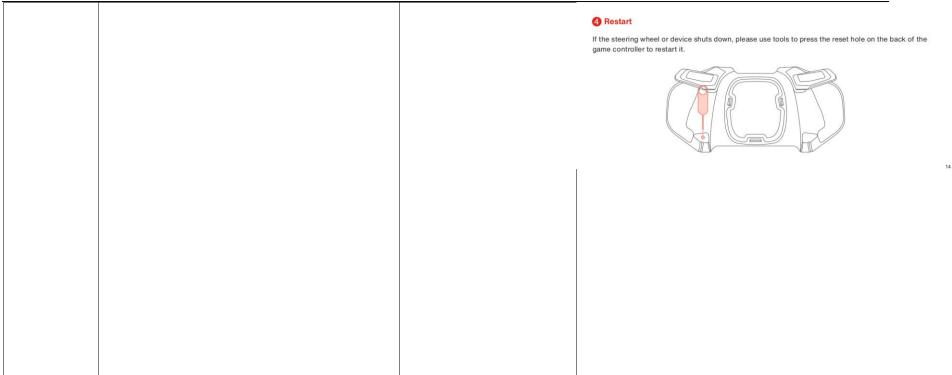


				111110000
Cannot	1. If the pairing mode is correct, the blue light	1. The pairing mode is	1. Change the pairing mode	
adapt	flashes to connect the phone	incorrect	2. Move the vehicle to an open	environment with only one
Ninebot	Mode, the white light blinks for connected	2. More vehicles affect the	car, and adapt the sound box n	ear the front cabin light
Millebot	Mode, the Winteright Simile for Confidence	choice of speaker or the	3. The APP can exit the connec	ction
engine	vehicle mode	distance between the	4. Update the latest firmware of	f the speaker
speaker		speaker and the car is too	5. Replace the front cabin conti	roller or speaker
		large to communicate with	·	·
	2. Make sure there is only one Gokart around,	the vehicle		
	and it is suitable	3. The speaker cannot		
	Wait close to the front light	search for the vehicle		
		Bluetooth because the		
		Bluetooth is occupied		
	3. The Gokart front cabin blue light is on, the	4. The firmware is faulty		
	APP is connected to the car 4, the speaker is	5. The speaker or front		
	, ,	cabin controller is faulty		
	not the latest firmware (some Gokart needs the			
	latest			
	Firmware can be adapted, such as co-branded)			
	5. Exclude the above, replace the speaker or			
	front cabin controller, and confirm whether it			
	can be matched			

4.5.11 Gokart game kit system halted

Error Code	Troubleshooting	Result	Solution
Gokart Game kit buttons do not react	Gokart Game Kit can power on/off properly or	can shut down normally cannot shut down normally	1. Check whether the GAME kit is in "GAME" mode, the game kit in game mode does not play the game when the button is not any reaction, just need to unplug the USB receiver, restart the Gokart and the game kit. 2. 2. Cannot shut down, it can be determined that the game kit crashed, forced to restart the device.





4.5.12 Gokart Game kit steering wheel skew

Error Code	Troubleshooting	Result	Solution
			Reset Steering wheel
			Note: Do not turn the steering wheel during reset. Press and hold the buttons as illustrated for 3 seconds when the steering wheel is mounted on Gokart. * If reset successfully, "C2" will be displayed on the screen. If failed, "F2" will be displayed.
The game kit is not at the			
same Angle as the steering			
wheel in the game			

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